

WHAT IS CLAIMED IS:

1. A method of preparing for an injection procedure, the method comprising:
mounting a syringe comprising a distal end and a plunger on an injector comprising a piston;
sensing that the syringe is mounted on the injector;
advancing the piston of the injector to engage the plunger of the syringe and to advance the plunger to the distal end thereof; and
retracting the piston to retract the plunger and aspirate fluid into the syringe.
2. The method of claim 1 wherein the step or act of advancing the plunger operates to expel air from the syringe.
3. The method of claim 1 wherein the step or act of retracting the plunger operates to fill the syringe with an amount of fluid.
4. The method of claim 1, further comprising the step of advancing the piston to prime the syringe and a tube connected to the syringe.
5. The method of claim 4, further comprising the step of advancing the piston to expel fluid from the syringe.
6. The method of claim 1, further comprising the step of retracting the piston after the syringe is removed from the injector.
7. The method of claim 1 wherein the step of advancing the piston to engage the plunger is automatically conducted by the injector.
8. A method of preparing for an injection procedure, the method comprising:
mounting a syringe comprising a distal end and a plunger on an injector comprising a piston;
sensing that the syringe is mounted on the injector
determining whether the syringe is an empty syringe, a preloaded syringe or a prefilled syringe;

advancing the piston of the injector to engage the plunger of the syringe;
advancing the piston of the injector to advance the plunger to the distal end of the syringe if the syringe is an empty syringe;
retracting the piston to retract the plunger and aspirate fluid into the syringe if the syringe is an empty syringe; and
advancing the piston to prime the syringe for the injection procedure.

9. The method of Claim 8 wherein the steps or acts of advancing and retracting are conducted automatically by the injector.

10. The method of Claim 1 wherein the steps or acts of advancing and retracting are conducted automatically by the injector.